

Figure 1

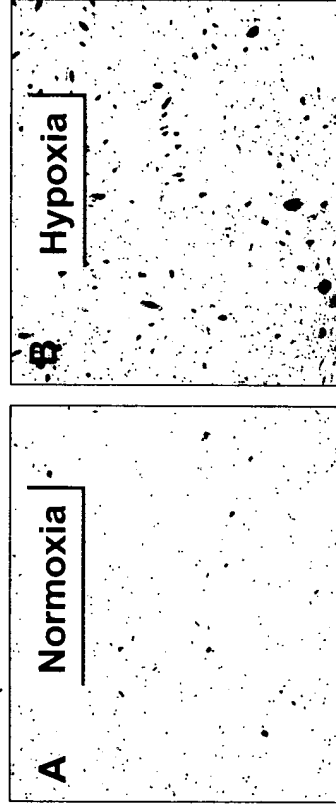


Figure 2

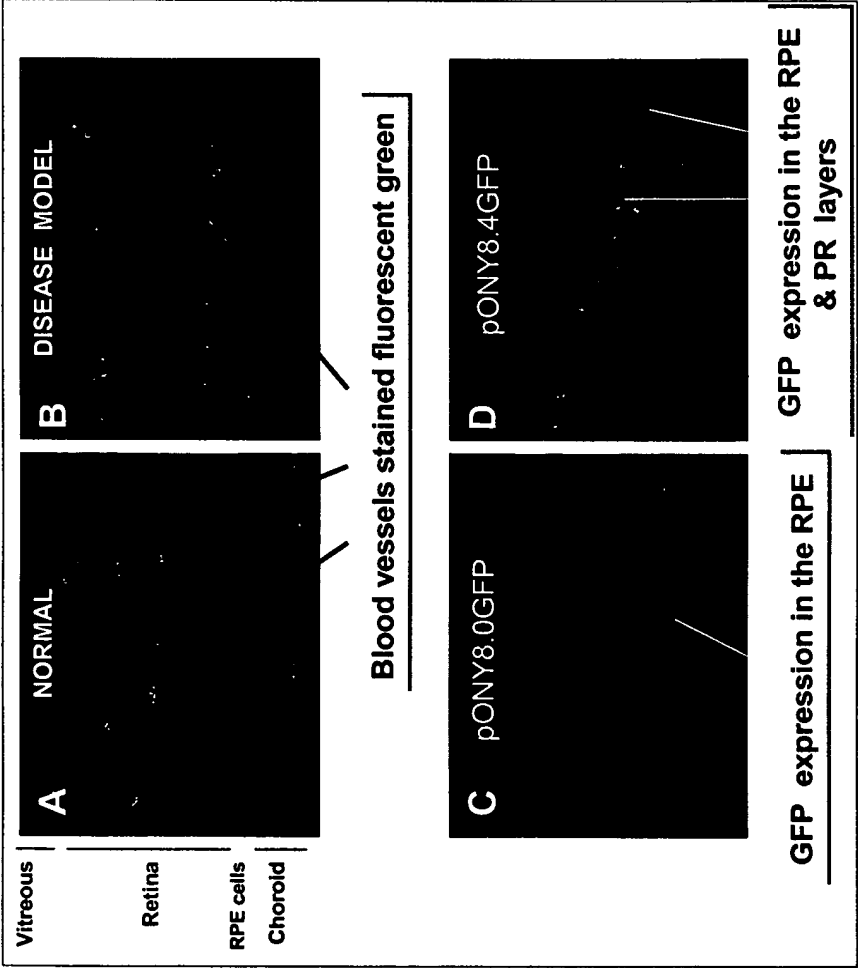


Figure 3

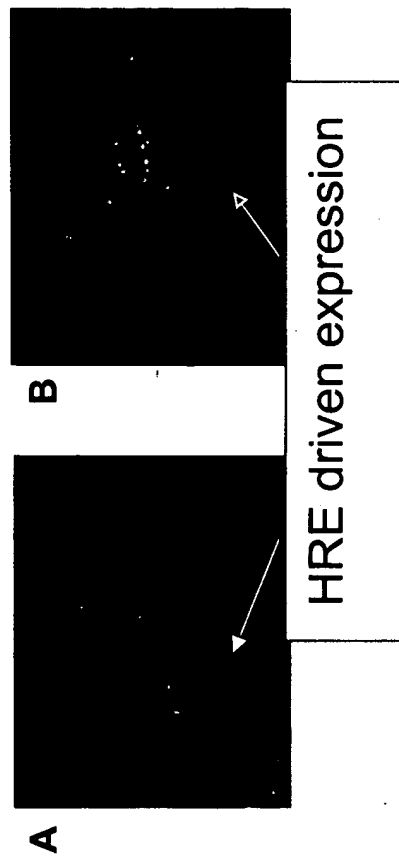


Figure 4

Codon optimized Endostatin
Original Endostatin
Amino Acid Sequence

ATGATGCAATGAAGAGGGCCCTGTGTGTGCTCTCTGTGCTCTGTGGGGCGGTCCTTCGTC
ATGATGCAATGAAGAGAGGGCTCTGTGTGTGCTGTGCTGTGTGGAGCAGCTTCGGTT
M D A M K R G L C C V L L L L C G A V F V
AGCCAAAGCGGACCGGTCACAGCACCGGACTTCCAGCCCGTGTGCACCTGGTG
TCGCCAGCGGTACCGGATCCACAGCCACCGGACTTCCAGCCCGGTGCTCCACCTGGTT
S P S G T G S H S H R D F Q P V L H L V
GCCCTGAACAGCCCTGAGCGGGGCGATGCGGGCATCAGGGGCGTGACTTCCAGTGC
GGCTCAACAGCCCCCTGACGGGGCATGCGGGGCATCCGCGGGGCCGACTTCCAGTGC
A L N S P L S G G M R G I R G A D F Q C
TTCCAGAGGCCAGGGCCGTGGGCTGGCCGGCACCTTCCGGGCTTCTCTGAGCAGCCGC
TTCCAGAGGCCGGGCGGTGGGCTGGGGGCACCTTCCGGGCTTCTCTGCTCTCGGC
F Q Q A R A V G L A G T F R A F L S S R
CTGAGGACCTGTACAGCATCGTGGCAGGGCCGACCGGCTGCCGTGCCATCGTGAAC
CTGAGGACCTGTACAGCATCGTGGCCGTGCCGACCGGCGAGCCGTGCCATCGTCAAC
L Q D L Y S I V R R A D R A A V P I V N
CTGAGGACGAGCTGTGTTCCCGAGTGGGAGGCCCTGTTTCAGCGGCAGCGAGGGCCCC
CTCAAGGACGAGCTGTGTTTCCCGAGTGGGAGGCTCTGTTCTCAGGCTCTGAGGGTCCG
L K D E L L F P S W E A L F S G S E G P
CTGAGCCAGGGCGCAGGATCTTCAGCTTCGACGGCAAGGACGTGTGCGCCACCCACC
CTGAAGCCCGGGCACGCATCTTCTCTTTGACGGCAAGGACGTCTGAGGCACCCACC
L K P G A R I F S F D G K D V L R H P T
TGGCCCCAGAAGAGCGTGTGGCACGGTCCGACCCCAACGGCCGAGGCTGACCCGAGAGC
TGGCCCCAGAAGAGCGTGTGGCATGGCTCGGACCCCAACGGCCGAGGCTGACCCGAGAGC
W P Q K S V W H G S D P N G R R L T E S
TACTGCGAGACCTGGCGCACCGAGGCCCGCCAGCCCGGCGAGCCAGCTCCCTGCTG
TACTGTGAGACGTGGCGGACCGAGGCTCCCTCGGCCACGGGCCAGGCTCCTGCTGCTG
Y C E T W R T E A P S A T G Q A S S L L
GGCGGACGGCTGTGGCCAGAGCGCGCCAGCTGCCACCCAGCCCTACATCGTGTGTGC
GGGGGCAGGCTCCTGGGGCAGAGTGGCGGAGCTGCCATCAGCCCTACATCGTGTGTGC
G G R L L G Q S A A S C H H A Y I V L C
ATCGAGAACAGCTTCATGACCGCCAGCAAGTA
ATTGAGAACAGCTTCATGACTGCCTCCAAGTAG
I E N S F M T A S K *

Figure 5

ATGATGCTATGAAGCGCGGCTGTGTGTGCTCTCTCTCTGTCGGCGCTGTGTGTTTGTG
ATGATGCAATGAAGAGAGGGCTCTGCTGTGCTGCTGTGTGAGCAGCTTCGTT
M D A M K R G L C C V L L L C G A V F V
TCGCCCTCGGCACCGGAGLCTGTCGAGAAGAAGGTGTACTGAGCGAGTGAAGAC
TCCCCAGCGGTACCGGATCTTATTTGAAGAAAGAGTGTATCTCTCAGAGTGAAGACT
S P S G T G S L F E K K V Y L S E C K T
GGCAACGGCAAGAACTACAGGGGCACCATGAGCAAGAACCAAGAAACGCATCACCTGCCAG
GGGAATGGAAGAAGAACTACAGAGGGACGATGTCCAAATCAAANAATGCAATCACCTGTCAA
G N G K N Y R G T M S K A L K N G I T C Q
AAGTGGKACGACACGAGCCGCCAGGGCTCGCTTACGCCCGCCACCCACCCAGCGAG
AAATGGAGTTCACCTTCTCCCCAGACAGCTAGATTCTACCTGTACACACCCCTCAGAG
K W S T S T S P H R P R F S P A T H P S S E
GGCTGGAGGAGAACTACTGCGCAACCCGACACGAGCCACCGAGGCCCTTGGTGTCTA
GGACTGGAGGAACTACTGCGGAATTCAGACAACGATCCGAGGGGCCCTGTGTCTAT
G L E E N Y C R N P D N D P Q G P W C Y
ACCCAGACCTGAGNAGCGCTACGACTACTGCGACATCTCTTGAGTGTGAAGAGGAATGT
TACTCTATCCAGAAAGAGATATGACTACTGCGACATCTCTTGAGTGTGAAGAGGAATGT
T T D P E K R Y D Y C D I L E C E E C
ATGCACTGACGGGGAGAACTACAGCGCAAGATCAGCAAGCAATGAGCGGCGCTGGAG
ATGCAATTGCAATGGAGAAATACTATGACGGCAAAATTTCCAAGACCATGTCTGGACTGGAA
M H C S G E N Y D G K I S K T T M S G L E
TGCAGGCTGGGACTCCAGAGCCCGCCACGGCTACATCCCGACGAGTTCCCC
TGGCAGGCTGGACTCTCAGAGCCACAGCTCATGATGATACATTCCTCCAAATTTCCA
C Q A W D S Q S P H A H G Y I P S K F P
AACAGAACTGAGNAGAACTATTTGTGCAATCCCGACCGGAGCTGCGCCCTGTGTC
AACAGAACTGAGNAGAAATTACTGTCTGTAACCCCGATAGGAGACTGCGGCGCTGTGTT
N K N L K K N Y C R N P D R E L R P W C
TTACACCGATCCCAACCAAGCGCTGGGAACTGTGCGACATCCCGCTGCACCACCCC
TTACACCGACCGACCCCAACAGCGCTGGGAACTTTGGGACATCCCGCGTGCACAACTT
F T T D P N K R W E L C D I P R C T T P
CCACCGACGCGGCCCTTACAGTGTCTGAAGGCAACCGCGAGAAATTCGCGGG
CCACATCTTCTGTCCCACTACAGTGTCTGAAGGGAACAGGTGAAACATTCGCGGG
P P S S G P T Y Q C L K G T G E N Y R G
AACGTGGCGTACCGTGAAGGCGCACCTGCGAGCATGAGGCGCCAGACCCCCAC
AATGTGGCTTTACCGTTCGGGCACACCTGTACAGCATCGGAGTGCACACCGCTTCC
N V A V T V S G H T C C Q H W S A Q O T P H
ACCAACAGCACCCCGAGAACTTTCCCTGCAAAAATTTGGATGAAAATCTACTCGCCG
ACACATACAGGACACAGAAAACTTTCCCTGCAAAAATTTGGATGAAAATCTACTCGCCG
T H N R T P E N P C K N L D E N Y C R
AACCTGACGGCAAGAGGCCCTTGGTGCATACAAACCAAGCCAGTGCCTGGGAG
AATCCTGAGAAAAAGGCCCATGTTGCCATACAAACCAAGCCAGTGCCTGGGAG
N P D G K R A A A G C H T T N S Q V R W E
TACTGCAAGTCCCGACGTGCAAGCAGCGCCCGTGAAGCACCGAGCAGTGGCCCCAAC
TACTGTAGATACCGTCTGTGACTCTCTCCCGAGTATCCAGGAAACAAATTTGGCTCCCAACA
Y C K I P S C D S S P V S T E Q L A P T
GCCCTCTCTTAA
GCACCACCTTAA
A P P *

Figure 6

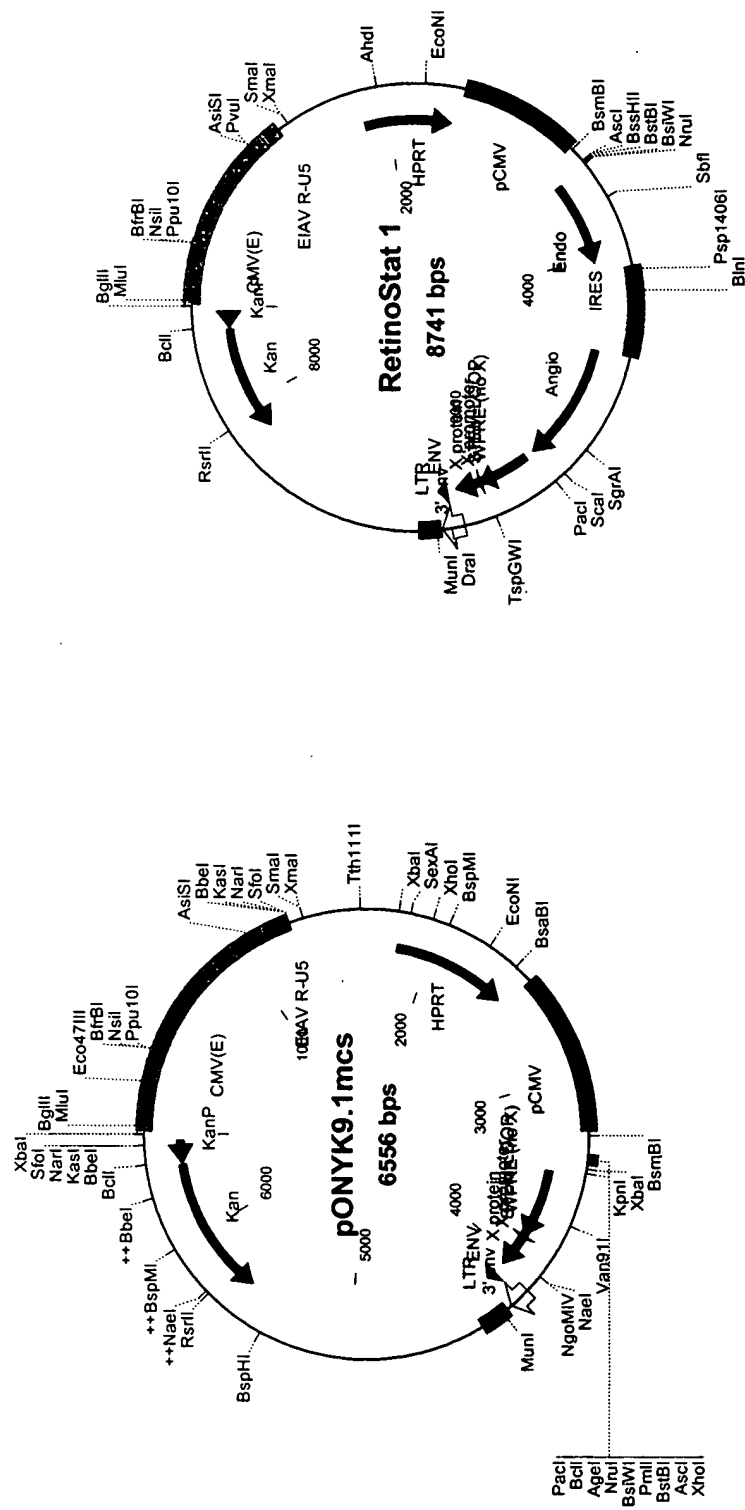


Figure 7

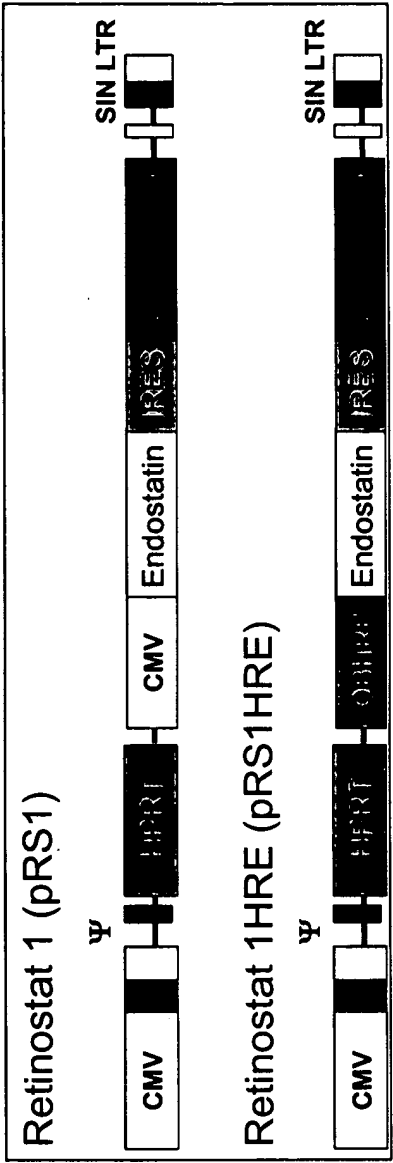


Figure 8

EIAV Lentiviral Vector Production

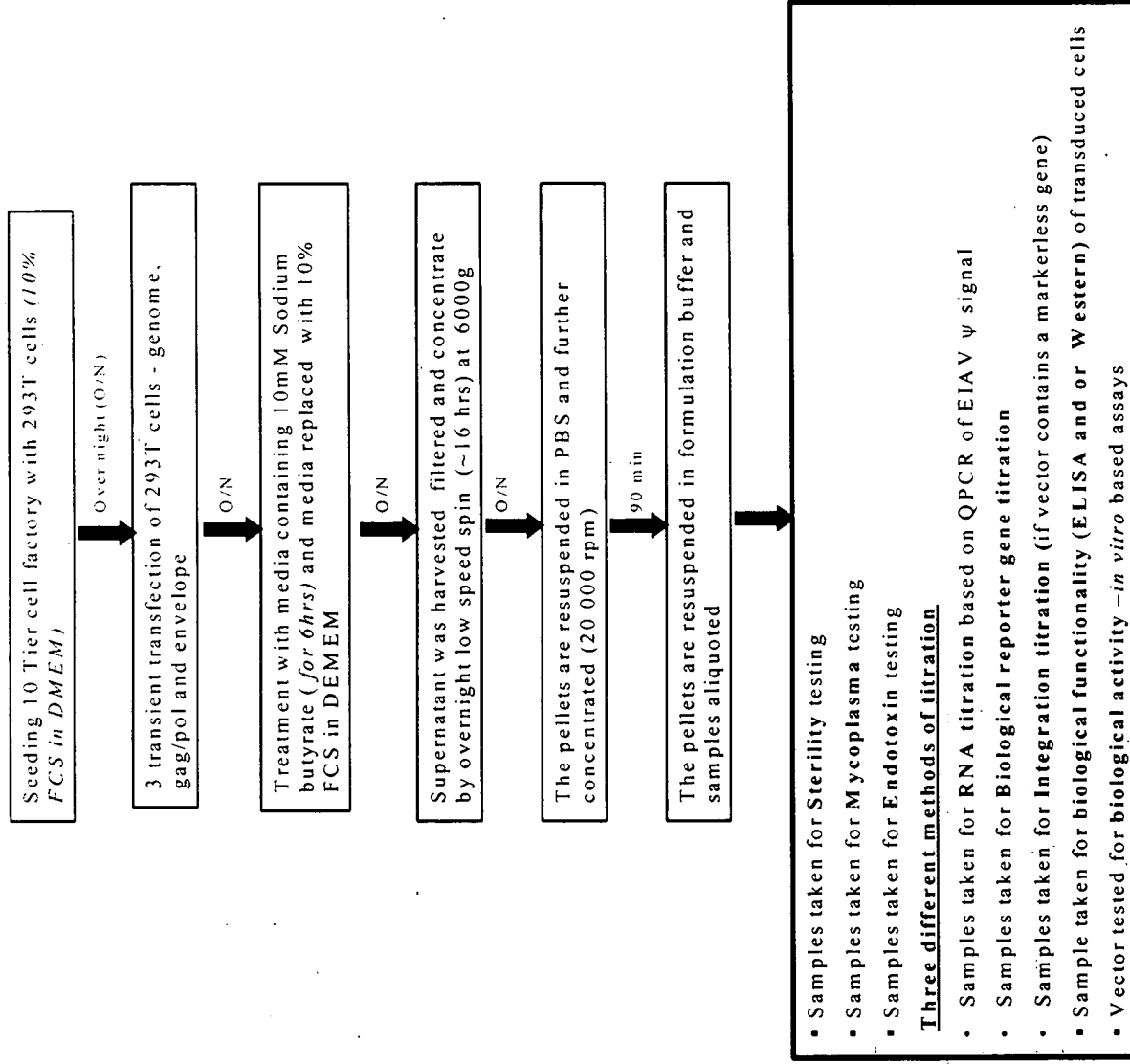


Figure 9